ELSEVIER

Comput. Methods Appl. Mech. Engrg. 163 (1998) 405–406

Computer methods in applied mechanics and engineering

Contents Volume 163

Volume 163, Nos. 1–4, 21 September 1998

The role of bulk viscosity in stabilized finite element formulations for incompressible flow: A review
T. De Mulder 1

Finite element implementation of gradient plasticity models. Part I: Gradient-dependent yield functions
S. Ramaswamy and N. Aravas 11

Finite element implementation of gradient plasticity models. Part II: Gradient-dependent evolution equations
S. Ramaswamy and N. Aravas 33

Local analytical design sensitivity analysis of the forging problem using FEM
M.A. Ghouali, G. Duvaut, S. Ortola and A. Oster 55

Analysis of a mixed finite element method for the Reissner–Mindlin plate problems
C. Lovadina 71

Application of genetic algorithms to the design optimization of an active vehicle suspension system
A.E. Baumal, J.J. McPhee and P.H. Calamai 87

Renumbering strategies for unstructured-grid solvers operating on shared-memory, cache-based parallel machines
R. Löhner 95

A symmetric formulation for computing transient shallow water flows
G. Hauke 111

On non-reflecting boundary conditions in unbounded elastic solids
I. Harari and Z. Shohet 123

A posteriori error estimation for standard finite element analysis
P. Díez, J.J. Egozcue and A. Huerta 141

Analysis of the superconvergent patch recovery technique and a posteriori error estimator in the finite element method (II)
Z. Zhang and J.Z. Zhu 159

Optimal inertia lumping from modal mass matrices for structural dynamics
E.J. Haug and W. Pan 171

Projection techniques for iterative solution of $A\underline{x} = \underline{b}$ with successive right-hand sides
P.F. Fischer 193

Implementation of boundary conditions for meshless methods
F.C. Günther and W.K. Liu 205

Torsional springs for two-dimensional dynamic unstructured fluid meshes
C. Farhat, C. Degand, B. Koobus and M. Lesoinne 231

A parallel and adaptive continuation method for semilinear bifurcation problems
L. Cherfils 247

Performance of traction-singular boundary elements in analysing fracture process in transient quasistatic environments
D.E. Katsareas, V.I. Kanarios and N.K. Anifantis 261

Improvements on objective and constraint functions in domain optimization
L. Holzleitner 271

Axes of meshing and their application in theory of gearing
J. Argyris, F.L. Litvin, A. Peng and H.J. Stadtfeld 293

Sensitivity analysis of smart structures
X. Liu and D.W. Begg 311

Generalized Galerkin approximations of elastic waves with absorbing boundary conditions
A. Quarteroni, A. Tagliani and E. Zampieri 323

High-order finite difference methods for the Helmholtz equation
I. Singer and E. Turkel 343

Finite element solution of the 3D mold filling problem for viscous incompressible fluid
E. Pichelin and T. Coupez 359

Computational techniques for nonlinear dynamics in multiple friction oscillators
U. Galvanetto and S.R. Bishop 373

Iterative analytical solution of nonlinear analysis of shallow spherical shell with computer algebra systems—MapleV
Z. Ye and J. Lu 383

Erratum to ''Analysis and adaptive modeling of highly heterogeneous elastic structures'' [Comput. Methods Appl. Mech. Engrg. 148 (1997) 367–391]
J.T. Oden and T.I. Zohdi 395

Author Index of Volume 163 397

Subject Index of Volume 163 399

Instructions to Authors 403

Contents Volume 163 405